Amendments to the Claims

1. (ORIGINAL)   A method of determining the signal strength in a receiver or transmitter with complex signal processing using the in-phase channel (I channel) and the quadrature channel (Q channel), characterized in that the field strength signals of the I channel and of the Q channel are fed to an evaluation unit and, in the evaluation unit, an overall field strength signal is generated on a logarithmic scale without intermediate frequency residues from the individual field strength signals.

2. (ORIGINAL)   A method as claimed in claim 1, characterized in that the overall field strength signal is generated in the evaluation unit in accordance with the relation

$$FieldSt = \ln (e^{\wedge}2 \; I\_log + e^{\wedge}2 \; Q\_log),$$

where FieldSt is the overall field strength signal and I_log and Q_log are the field strength signals of the I channel and of the Q channel, respectively.

3. (CURRENTLY AMENDED)   A method as claimed in ~~claim 1 or 2~~claim 1, characterized in that the field strength signals of the I channel and of the Q channel are fed to the evaluation unit without amplification.

4. (CURRENTLY AMENDED)   A method as claimed in ~~claim 1 or 2~~claim 1, characterized in that the field strength signals of the I channel and of the Q channel are amplified before they are fed to the evaluation unit.

5. (CURRENTLY AMENDED)   A circuit arrangement for determining the signal strength in a receiver or transmitter with complex signal processing using the in-phase channel (I channel) and the quadrature channel (Q channel), characterized in that an evaluation unit ~~(20)~~ is provided, which has two inputs ~~(22, 24)~~ for the field strength signals (I_log, Q_log) of the I channel and of the Q channel and which generates an overall field strength signal (FieldSt) on a logarithmic scale without intermediate frequency residues from the individual field strength signals (I_log, Q_log), in order to output it at an output (26) of the evaluation unit ~~(20)~~.

6. (CURRENTLY AMENDED)   A circuit arrangement as claimed in claim 5, characterized in that the evaluation unit (20) generates the overall field strength signal (FieldSt) in accordance with the relation

$$\text{FieldSt} = \ln (e^2\ I\_log + e^2\ Q\_log).$$

7. (CURRENTLY AMENDED)   A circuit arrangement as claimed in claim 5 or 6 claim 5, characterized in that the evaluation unit (20) contains in each case one diode (28, 30) for the I channel and the Q channel, where the anodes of the diodes are in each case connected to the inputs (22, 24) for the field strength signals of the I channel and of the Q channel and the cathodes of the diodes (28, 30) are connected to one another, to a current source (32) and to the output (26) of the evaluation unit (20).